INTERNATIONAL SEARCH REPORT

Ional Application No US2004/019593

A. CLASS	SIFICATION OF SUBJECT MATTER		US2004/019593
IPC 7	HO1J49/40		
A			
B. FIELDS	to International Patent Classification (IPC) or to both national c	lassification and IPC	
Minimum de	ocumentation searched (classification system followed by class		
IPC 7	H01J	ssification symbols)	
Documenta	tion searched other than minimum documentation to the exten	t that such documents are included	
		Deputies are attended	in the fields searched
Electronic d	lata base consulted during the international search (name of c	Isla base andt	
EPO-In	ternal, WPI Data, PAJ, INSPEC, C	OMDENINEV	rch terms used)
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C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category •	Citation of document, with Indication, where appropriate, of	the relevant passages	
			Relevant to claim No.
A	GB 2 080 021 A (WOLLNIK HERMAN	NN)	1-78
	27 January 1982 (1982-01-27) cited in the application		1-/0
	the whole document		
4	The limb angular rate and		
.	SU 1 725 289 A1 (INST YADERNO. KAZSSR) 7 April 1992 (1992-04-	J FIZ AN	1-78
	cited in the application	-0/)	
	figure 1		
۱	GB 2 361 353 A (* BRUKER DALTO	MITIC OMPUS	
[1/ October 2001 (2001-10-17)	· ·	1–78
[page 9, line 11 - line 17; fig	jures 1-3	
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χ Furthe	er documents are listed in the continuation of box C.		
	egories of cited documents:	X Patent family membe	ns are listed in annex.
		T later document published	after the international filing date
	nt defining the general state of the art which is not ered to be of particular relevance	cited to understand the p	conflict with the application but rinciple or theory underlying the
		"X" document of particular role	Woman the state of the
which is	it which may throw doubts on priority daim(s) or cited to establish the publication date of another	involve an inventive sten	when the document is tele-
or documen	of other special reason (as specified)	cannot be considered to	evance; the claimed invention
documen	If nublished prior to the teters at the second	document is combined w ments, such combination In the art.	involve an inventive step when the ith one or more other such docu- being obvious to a person skilled
	proving date oranied	*&* document member of the	
uie du	ctual completion of the international search	Date of mailing of the inter	
15	April 2005	27/04/2005	
ame and ma	alling address of the ISA		
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	7uccatts c	
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INTERNATIONAL SEARCH REPORT

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Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	1 013333		
Calegory	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	WOLLNIK H: "TIME-OF-FLIGHT MASS ANALYZERS" MASS SPECTROMETRY REVIEWS, JOHN WILEY AND SONS, NEW YORK, NY, US, vol. 12, 1993, pages 89-114, XP000195772 ISSN: 0277-7037 page 109, paragraph B - page 110, paragraph C; figures 15,16	1-78		
A	WOLLNIK H ET AL: "TIME-OF-FLIGHT MASS SPECTROMETERS WITH MULTIPLY REFLECTED ION TRAJECTORIES" INTERNATIONAL JOURNAL OF MASS SPECTROMETRY AND ION PROCESSES, ELSEVIER SCIENTIFIC PUBLISHING CO. AMSTERDAM, NL, vol. 96, no. 3, 16 April 1990 (1990-04-16), pages 267-274, XP000117152 ISSN: 0168-1176 page 273, paragraph 2	1-78		
A	SAKURAI T ET AL: "Ion optics of a high resolution multipassage mass spectrometer with electrostatic ion mirrors" NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH, SECTION - A: ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, NORTH-HOLLAND PUBLISHING COMPANY. AMSTERDAM, NL, vol. A363, no. 1, 1995, pages 473-476, XP004009692 ISSN: 0168-9002 page 476, left-hand column, lines 2-5; figures 2,3	1-78		
	US 5 017 780 A (KUTSCHER ET AL) 21 May 1991 (1991-05-21) column 1, line 23 - column 2, line 3	1-78		
	(continuation of second sheet) (January 2004)			

INTERNATIONAL SEARCH REPORT

ational Application No
../US2004/019593

Patent document		D.1.11	1 / US2004/ 019593			
cited in search report		Publication date	I ratentiamity		Publication date	
GB 2080021	A	27-01-1982	DE 30257 FR 24867 JP 16843 JP 30510 JP 570449	13 A1 21 C 53 B	28-01-1982 15-01-1982 31-07-1992 05-08-1991 13-03-1982	
SU 1725289	A1	07-04-1992	NONE			
GB 2361353	Α	17-10-2001	DE 100056 US 20010117	 98 A1 03 A1	23-08-2001 09-08-2001	
US 5017780	Α	21-05-1991	NONE	— — — — — — — —		